In Situ Stabilization

Technology Objectives:

- Immobilize contaminants without removal
- Decrease permeability, reduce leaching
- Provide physical stabilization for improved cap performance
- Reduce risks/costs associated with removal
- Applicable to buried debris and contaminated soil

Accomplishments:

- Completed INEL field demonstrations using several different grout materials (type 2 portland cement, type H portland cement, TECT, paraffin, hematite, epoxy, polymer)
- Demonstrated isolation wall concept at the Idaho National Engineering and Environmental Laboratory, Cold Test Pit
- Established performance criteria for stabilization materials

Participants:

- Idaho National Engineering and Environmental Laboratory
- Western Environmental Technology Office/ MSE
- Brookhaven National Laboratory
- Applied Geotechnical Engineering & Construction, Inc.
- Argonne National Laboratory - East
- Carter Technologies
- Orbit Technologies, Inc.
- Sandia National Laboratory

Technology Transfer:

- Applied Geotechnical Engineering and Construction (Westinghouse Hanford Company spinoff founded in 1996)
- Collaborative remediation action scheduled for 1997 at the Idaho National Engineering and Environmental Laboratory RWMC Acid Pit

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